

Resume of Dr. Vasim Ahmad Rafik Shaikh

Office Address:

Dr. Vasim Ahmad Rafik Shaikh
Assistant Professor,
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Dr. Vasim Ahmad Rafik Shaikh
P. No. 5, Sr. No. 16,
Near Data Max Computers,
Aqsa Nagar, Mehrun,
Jalgaon-425001 (M. S.), India.

Educational Qualification :

Degree	University	Month and Year of Passing
B.Sc. (Chemistry)	Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon	June 2005
M.Sc. (Physical Chemistry)	Savitribai Phule Pune University, Pune	July 2007
Ph. D. (Chemistry)	Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon	June 2014

Title of Ph.D. Thesis:

"Studies of Molecular Interactions Involving Micellar and Binding Equilibria in Aqueous Solutions."

Research Supervisors: Prof. D. G. Hundiwale and Prof. K. J. Patil

Teaching Experience:

A) Under Graduate:

Institution	Position Held	Nature of Appointment	Subject	Period of Appointment with dates	
				From	To
University Institute of Chemical Technology, K. B. C. N. M. U., Jalgaon	Lecturer in Physical Chemistry	Full Time Temporary (Govt. Contract)	Physical Chemistry	01/08/2014	30/04/2015
University Institute of Chemical Technology, K. B. C. N. M. U., Jalgaon	Lecturer in Physical Chemistry	Full Time Temporary (Govt. Contract)	Physical Chemistry	01/07/2015	17/08/2015

B) Post-Graduate Level:

Institution	Position Held	Nature of Appointment	Subject	Period of Appointment with dates	
				From	To
School of Chemical Sciences, K. B. C. N. M. U., Jalgaon.	Lecturer	Full Time Temporary (University Contract)	Physical Chemistry	31/07/2008	04/05/2009
School of Chemical Sciences, K. B. C. N. M. U., Jalgaon.	Lecturer	Full Time Temporary (University Contract)	Physical Chemistry	24/07/2009	30/11/2009
School of Chemical Sciences, K. B. C. N. M. U., Jalgaon.	Teaching Assistant	Temporary	Physical Chemistry	01/12/2009	31/03/2010
School of Chemical Sciences, K. B. C. N. M. U., Jalgaon.	Lecturer in Physical Chemistry	Full Time Temporary (University Contract)	Physical Chemistry	19/08/2015	30/04/2016
School of Chemical Sciences, K. B. C. N. M. U., Jalgaon.	Lecturer in Physical Chemistry	Temporary (University Contract)	Physical Chemistry	08/07/2016	30/04/2017

School of Chemical Sciences, K. B. C. N. M. U., Jalgaon.	Assistant Professor in Physical Chemistry	Full Time Temporary (University Contract)	Physical Chemistry	22/08/2017	21/05/2018
School of Chemical Sciences, K. B. C. N. M. U., Jalgaon.	Assistant Professor in Physical Chemistry	Full Time Temporary (University Contract)	Physical Chemistry	02/07/2018	22/05/2019

Projects Completed and Guided for Post-Graduate Students: 22

Research Interests:

- Thermodynamic properties of aqueous solutions of electrolytes and non-electrolytes
- Molecular transport and recognition of aqueous solutions of anaesthetic reagents.
- Self-assembly and supramolecular chemistry.

Training, Handling and Experimentation with Sophisticated Instruments:

1. Measurements of density by a high precision Anton Paar Digital Densitometer (Model: DMA-5000).
2. Measurement of Osmotic Coefficient and determination of molecular mass of macromolecules using KNAUER Vapor Pressure Osmometer (Model: K-7000 VPO).
3. Determination of Sound Speed Measurements for Macromolecules in various solvents using Interferometer.
4. Determination of Moisture Content by Karl-Fischer titration.
5. Training in setting up and experimentation in UV-Visible Spectrophotometer.

Awards / Fellowships received:

- JRF** – Research Fellowship in Science for Meritorious Student (RFSMS) scheme of UGC New Delhi at School of Chemical Sciences, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon.
- JRF** – Maulana Azad National Fellowship (MANF) for Minority Students, scheme of UGC New Delhi at School of Chemical Sciences, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon.
- SRF** – Maulana Azad National Fellowship (MANF) for Minority Students, scheme of UGC New Delhi at School of Chemical Sciences, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon.

Research Publications:**International: 26****National: Nil****Conference Proceedings: 01****Total Cumulative Impact Factor: 58.957****Average Impact Factor: 2.358****Citation indices (Google Scholar)**

	All	Since 2015
Citations	161	136
h-index	8	8
i10-index	7	7

List of Research Papers Published in International Journals:

Sr. No.	Name of the Author/s	Title of Paper	Name of Journal, Publication Year, Volume, Page No.	Impact Factor
1	Vasim R. Shaikh, Dilip H. Dagade, Dilip G. Hundiwale, Kesharsingh J. Patil	Volumetric Studies of Aqueous Solutions of Local Anesthetical Drug Compounds [Hydrochlorides of Procaine (PC·HCl), Lidocaine (LC·HCl) and Tetracaine (TC·HCl)] at 298.15 K.	<i>J. Mol. Liq.</i> 2011 , 164, 239-242	4.561
2	Vasim R. Shaikh, Dilip H. Dagade, Santosh S. Terdale, Dilip G. Hundiwale, Kesharsingh J. Patil	Activity and Activity Coefficient Studies of Aqueous Binary Solutions of Procaine, Lidocaine and Tetracaine Hydrochloride at 298.15 K.	<i>J. Chem. Eng. Data</i> 2012 , 57, 3114-3122	2.298
3	Vasim R. Shaikh, Santosh S. Terdale, Gaurav R. Gupta, Dilip G. Hundiwale, Kesharsingh J. Patil	Thermodynamic Studies of Ionic Interactions in Aqueous Solutions of N-Butyl-Pyridinium Bromide at 298.15 K.	<i>J. Mol. Liq.</i> 2013 , 186, 14-22	4.561
4	Sopan K. Kushare, Vasim R. Shaikh, Santosh S. Terdale, Dilip H. Dagade, Rahul R. Kolhapurkar, Kesharsingh J. Patil	Thermodynamics of Aqueous Polyethylene-Glycol (PEG) Solutions at 298.15 K: Activity, Activity Coefficients and Application of Molecular Theories.	<i>J. Mol. Liq.</i> 2013 , 187, 129-136	4.561

5	Vasim R. Shaikh , Santosh S. Terdale, Abdul, A., Gaurav R. Gupta, Dilip G. Hundiwale, Kesharsingh J. Patil	Volumetric Studies of 2,2,2-Cryptand in Aqueous and Aqueous-KBr Solutions at 298.15 K: An Example involving Solvent Induced Hydrophilic and Hydrophobic Interactions.	<i>J. Solution Chem.</i> 2013, 42, 2087-2103	1.039
6	Vasim R. Shaikh , Santosh S. Terdale, Abdul, A., Gaurav R. Gupta, Dilip H. Dagade, Dilip G. Hundiwale, Kesharsingh J. Patil	Thermodynamic Studies of Aqueous Solutions of 2,2,2-Cryptand at 298.15 K: Enthalpy-Entropy Compensation, Partial Entropies and Complexation with K ⁺ ions.	<i>J. Phys. Chem. B</i> 2013, 117, 16249-16259	2.923
7	Vasim R. Shaikh , Santosh S. Terdale, Dilip G. Hundiwale, Kesharsingh J. Patil	Thermodynamic Studies of Drug- α -Cyclodextrin Interactions in Water at 298.15 K: Procaine Hydrochloride / Lidocaine Hydrochloride / Tetracaine Hydrochloride / Ranitidine Hydrochloride + α -Cyclodextrin + H ₂ O Systems.	<i>J. Chem. Thermodyn.</i> 2014, 68, 161-168	2.290
8	Shamkant L. Patil, Uday R. Kapadi, Dilip G. Hundiwale, Vasim R. Shaikh	Kinetics of Condensation Reactions between Ethanolamine (amino-alcohol) and Dicarboxylic Acids at 413 K.	<i>Int. J. Chem. Kinet</i> 2014, 46, 138-142	1.417
9	Rupali S. Patil, Vasim R. Shaikh , Pankaj D. Patil, Amulrao U. Borse, Kesharsingh J. Patil	The Viscosity B and D Coefficient (Jones-Dole Equation) Studies in Aqueous Solutions of Alkyltrimethylammonium Bromides at 298.15 K.	<i>J. Mol. Liq.</i> 2014, 200, 416-424.	4.561
10	Vasim R. Shaikh , Santosh S. Terdale, Dilip G. Hundiwale, Kesharsingh J. Patil	Thermodynamic Studies of Ionic Interactions for the Drug Ranitidine Hydrochloride in Aqueous Solutions at 298.15 K.	<i>J. Solution Chem.</i> 2015, 44, 1875-1890	1.039
11	Rupali S. Patil, Vasim R. Shaikh , Pankaj D. Patil, Amulrao U. Borse, Kesharsingh J. Patil	Volumetric Properties of Alkyltrimethylammonium Bromides in Aqueous Solutions.	<i>J. Chem. Eng. Data</i> 2016, 61, 195-206	2.298

12	Pankaj D. Patil, Vasim R. Shaikh , Gaurav R. Gupta, Dilip G. Hundiwale Amulrao U. Borse, Kesharsingh J. Patil	Studies of Viscosity Coefficient and Expansivity Properties of Aqueous Solutions of Ethylene Glycol and Polyethylene Glycols at 293.15 K, 298.15 K and 303.15 K and at Ambient Pressure.	<i>J. Solution Chem.</i> 2016 , 45, 947-969	1.039
13	Vasim R. Shaikh , Dilip G. Hundiwale, Kesharsingh J. Patil	A Volumetric Approach: Interactions of Some Local Anesthetical Drugs with α -Cyclodextrin in Aqueous Solutions at 298.15 K	<i>J. Chem. Thermodyn.</i> 2017 , 107, 51-57	2.290
14	Vasim R. Shaikh , Dilip G. Hundiwale, Kesharsingh J. Patil	Volumetric Studies of Drug- α -Cyclodextrin Interactions in Water at 298.15 K: Ranitidine Hydrochloride + α -Cyclodextrin + H ₂ O system	<i>Res. J. Recent Sci.</i> 2017 , 6, 23-27	
15	Vasim R. Shaikh , Vidya R. Salunke, Karishma P. Borse, Sayali E. Patil, Amulrao U. Borse, Kesharsingh J. Patil	Volumetric Properties of Local Anesthetical Drug Lidocaine Hydrochloride in Aqueous and in Aqueous NaCl Solutions at Different Temperatures	<i>J. Chem. Eng. Data</i> 2018 , 63, 1498-1506	2.298
16	Pramod P. Patil, Vasim R. Shaikh , Gaurav R. Gupta, Pankaj D. Patil, Amulrao U. Borse, Kesharsingh J. Patil	Studies of Viscosity Coefficient and Density Properties of Imidazolium Based Ionic Liquids in Aqueous Solutions at Different Temperatures	<i>ChemistrySelect</i> 2018 , 3, 5593-5599	1.716
17	Pramod P. Patil, Vasim R. Shaikh , Pankaj D. Patil, Amulrao U. Borse, Kesharsingh J. Patil	Volumetric, Isentropic Compressibility and Viscosity Coefficient Studies of Binary Solutions involving Amides as a Solute in Aqueous and CCl ₄ Solvent Systems at 298.15 K	<i>J. Mol. Liq.</i> 2018 , 264, 223-232	4.561
18	Gaurav R. Gupta, Pankaj D. Patil, Vasim R. Shaikh , Rahul R. Kolhapurkar, Dilip H. Dagade, Kesharsingh J. Patil	Analytical Estimation of Water Contents, Specific Heat Capacity and Thermal Profiles Associated with Enzymatic Model Compound β -Cyclodextrin	<i>Curr. Sci.</i> 2018 , 114, 2525-2529	0.756

19	Preeti A. Tomar, Vasim R. Shaikh , Kesharsingh J. Patil	Tetraalkylammonium Bromide-Water Mixtures Revisited: Isothermal Compressibility and Internal Pressure Variation in Limiting Concentration Range at 298.15 K	<i>J. Chem. Thermodyn.</i> 2018 , 126, 119-125	2.290
20	Gaurav Gupta, Vasim Shaikh , Kesharsingh Patil	Synchronous Thermogravimetry and Differential Scanning Calorimetry estimates of Urea Inclusion Complexes Using TGA/DSC	<i>Curr. Phys. Chem.</i> 2018 , 8, 175-185	
21	Pankaj D. Patil, Vasim R. Shaikh , Gaurav R. Gupta, Dilip G. Hundiwale, Kesharsingh J. Patil	Studies of Volumetric and Viscosity Properties in Aqueous Solutions of Imidazolium Based Ionic Liquids at Different Temperatures and at Ambient Pressure	<i>J. Solution Chem.</i> 2019 , 48, 45-60	1.039
22	Sopan K. Kushare, Vasim R. Shaikh , Dilip H. Dagade, Kesharsingh J. Patil	Studies of the Effect of Urea on PEG-4000 Polymer-Water Interactions at 298.15 K	<i>J. Chem. Eng. Data</i> 2019 , 64, 2341-2349	2.298
23	Kunal R. Patil, Vasim R. Shaikh , Sarika K. Patil, Dilip H. Dagade, Kesharsingh J. Patil	Thermodynamic Studies of Aqueous Solutions of Ammonium Based Nitrate Protic Ionic Liquids at Different Temperatures (288.15 K to 303.15 K) and 101.325 kPa: A Volumetric Approach	<i>J. Mol. Liq.</i> 2019 , 287, 110884	4.561
24	Sunil H. Ganatra, Vasim R. Shaikh , Preeti A. Tomar, and Kesharsingh J. Patil	Volumetric Studies of Solvation of Carboxylic Acids in Aqueous, Carbon Tetrachloride, Methanolic and Methanolic-Urea Binary Solutions at 298.15 K	<i>J. Mol. Liq.</i> 2020 , 304, 112658	4.561
25	Gaurav Gupta, Vasim Shaikh , Sachin Kalas and Kesharsingh Patil	Specific Heat Capacity Estimations for Biologically and Medicinally Important Compounds: Lidocaine Hydrochloride, Clove Oil and β -Piperine using DSC Technique	<i>Curr. Phys. Chem.</i> 2020 (In Press)	

26	Sunil H. Ganatra, Vasim R. Shaikh , Anushree S. Ujjankar, Sneha D. Khobragade, Preeti A. Tomar, Kesharsingh J. Patil	Volume and Compressibility Changes on Mixing Solutions of Alkali Halides/Sodium Acetate with Sodium Salt of Butyric Acid at 298.15 K: Understanding Like Charge Ionic (Anion–Anion) Interactions in Water.	<i>J. Mol. Liq.</i> 2020 (In Press)	
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List of Research Paper(s) Published in Conference Proceedings:

Sr. No.	Name of the Author/s	Title of Paper	Name of Journal, Publication Year, Volume, Page No.	Name of Conference	Organized By
1.	P. D. Patil, N. I. Shaikh, G. R. Gupta, V. R. Shaikh , D. G. Hundiwale and K. J. Patil	Electronic Spectral Studies of Imidazolium based Ionic Liquids	<i>J. Adv. Sci. Tech.</i> 2014, 14, 101-105. (ISSN No. 0971-9563)	First International Conference on Global Opportunities for Latest Developments in Chemistry and Technology (GOLD-CT-2014)	School of Chemical Sciences, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon (India).

Papers Presented at Conferences / Symposia:

A) International Conferences: 04

B) National Conferences / Symposia: 10

Membership of various National/International Academic bodies:

- Life Member of Indian Thermodynamics Society
- Life Member of The Indian Science Congress Association